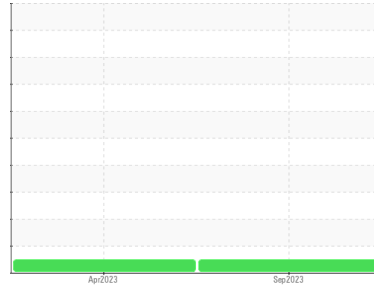


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Machine Id  
**203677**

 Component  
**Diesel Engine**

 Fluid  
**PETRO CANADA DURON HP 15W40 (--- QTS)**
**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0057317</b>	PCA0057364	---
Sample Date	Client Info		<b>29 Sep 2023</b>	14 Apr 2023	---
Machine Age	mls	Client Info	<b>165881</b>	136142	---
Oil Age	mls	Client Info	<b>19281</b>	17233	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method		<b>NEG</b>	NEG	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>12</b>	11	---
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	3	---
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	1	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>3</b>	3	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>64</b>	80	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>997</b>	991	---
Calcium	ppm	ASTM D5185m	<b>1099</b>	1100	---
Phosphorus	ppm	ASTM D5185m	<b>1058</b>	1066	---
Zinc	ppm	ASTM D5185m	<b>1301</b>	1361	---
Sulfur	ppm	ASTM D5185m	<b>2622</b>	3715	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	11	---
Sodium	ppm	ASTM D5185m	<b>1</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>10</b>	13	---

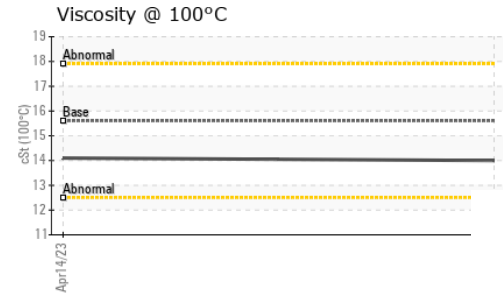
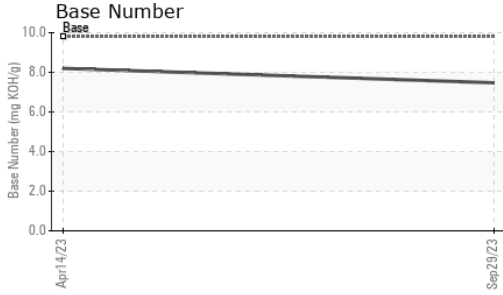
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.5</b>	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.5</b>	21.6	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.1</b>	18.9	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>7.47</b>	8.20	---

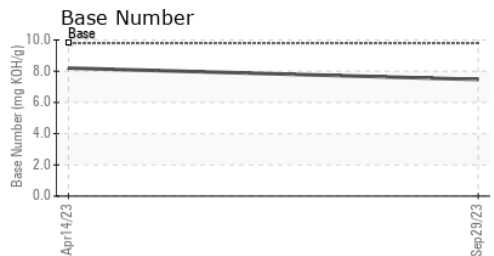
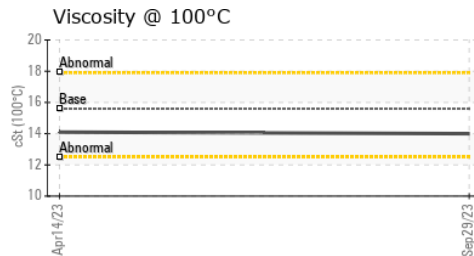
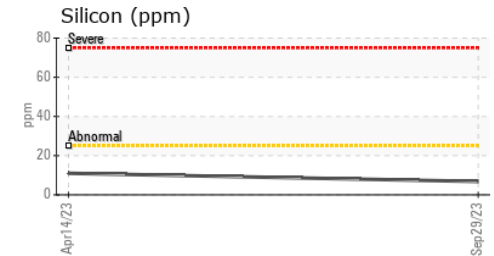
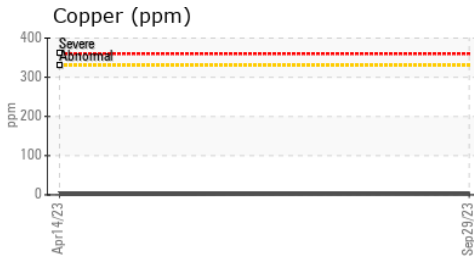
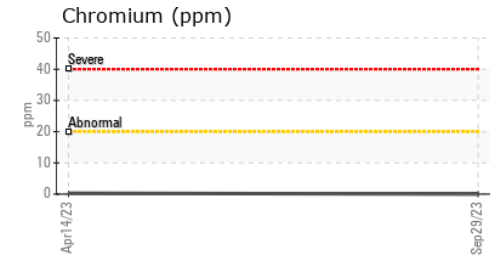
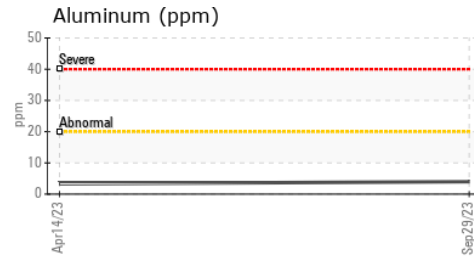
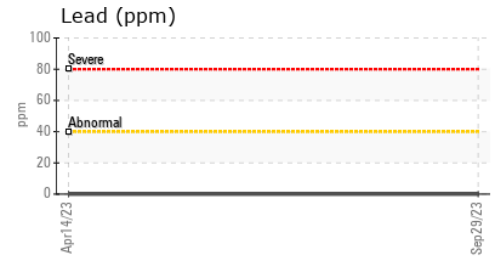
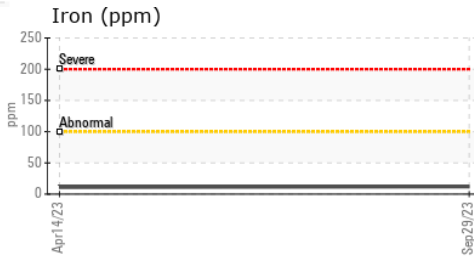
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	<b>14.0</b>	14.1	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0057317      **Received** : 11 Oct 2023  
**Lab Number** : 05976569      **Diagnosed** : 12 Oct 2023  
**Unique Number** : 10688519      **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**VALLEY PACIFIC PETROLEUM SERVICES**  
 152 FRANK WEST CIRCLE  
 STOCKTON, CA  
 US 95206  
 Contact: MARCEY LIGHTFOOT  
 marcey.lightfoot@vpps.net  
 T: (209)461-3611  
 F: (209)888-6196

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)